

# Disc Filters

13 mm - 293 mm

Hydrophilic, Hydrophobic, Standard Diameters

Absolute-rated disc filters from Meissner meet the needs of a wide range of small volume and analytical applications. They are available in standard diameters from 13 mm to 293 mm and pore sizes from 0.04  $\mu\text{m}$  to 10  $\mu\text{m}$ . A complete range of microfiltration media is available for use in pharmaceutical, biological, biopharmaceutical, industrial, analytical, solvent, chemical, gas, air and venting applications.

Meissner disc filters are manufactured to the industry's highest standards and packaged in a cleanroom. All materials are free of additives, surfactants and manufacturing post-treatments. All disc filter media meet the biosafety requirements of the USP Class VI Plastics biological reactivity tests and comply with FDA requirements. Meissner's disc filters are non-cytotoxic and non-pyrogenic.

## SteriLUX® Disc Filters

- Hydrophilic PVDF membrane
- Pore sizes of 0.1  $\mu\text{m}$ , 0.2  $\mu\text{m}$ , 0.4  $\mu\text{m}$ , 0.6  $\mu\text{m}$
- Extremely low protein binding
- Extremely low extractables

### Typical Applications

- Small volume sterile filtration of aqueous solutions, including proteins, biopharmaceuticals and biologicals

## STyLUX® Disc Filters

- Hydrophilic PES membrane
- Pore sizes of 0.04  $\mu\text{m}$ , 0.1  $\mu\text{m}$ , 0.2  $\mu\text{m}$ , 0.4  $\mu\text{m}$ , 0.6  $\mu\text{m}$
- Fastest flows and lowest pressure drops of any absolute-rated membrane filter
- Asymmetric pore structure gives extended filter life
- Extremely low protein binding
- Chemical compatibility from pH 1-14

### Typical Applications

- Small volume sterile filtration of aqueous solutions, including proteins, biopharmaceuticals and biologicals

## EverLUX™ Disc Filters

- Hydrophilic PES membrane
- Pore size of 0.2  $\mu\text{m}$ , 0.4  $\mu\text{m}$ , 0.6  $\mu\text{m}$
- High transmission of proteins, active ingredients and preservatives; low adsorption characteristics

### Typical Application

- Small volumes of low to high contaminant fluids including buffers, complex biologicals, serum and culture media

## Steridyne® Disc Filters

- Hydrophobic PVDF membrane
- Pore size of 0.2  $\mu\text{m}$

### Typical Application

- Sterile venting

## Ultradyne® Disc Filters

- Hydrophobic PTFE membrane on polypropylene support
- Pore sizes of 0.1  $\mu\text{m}$ , 0.2  $\mu\text{m}$ , 0.4  $\mu\text{m}$ , 1.0  $\mu\text{m}$
- Extremely wide chemical compatibility

### Typical Applications

- Clarification and sterilization of solvents, chemicals and aqueous solutions (when pre-wetted with a low surface tension liquid)
- Sterilization of gases and air; venting

## Chemdyne® Disc Filters

- Hydrophobic polypropylene membrane
- Pore sizes of 0.1  $\mu\text{m}$ , 0.2  $\mu\text{m}$
- Cost-effective alternative to PTFE
- Wide chemical & solvent compatibility

### Typical Applications

- Solvents, chemicals
- Gas/air, venting

## Protec® Disc Filters

- Borosilicate glass microfiber
- Pore size of 0.5  $\mu\text{m}$
- Consistent contaminant removal with high dirt-holding capacity

### Typical Applications

- Small volume pre-filtration, clarification, and bio burden reduction for biological liquids

## ALpHA® Disc Filters

- Self-bonded polypropylene microfiber media
- Absolute removal ratings of 0.6  $\mu\text{m}$ , 0.8  $\mu\text{m}$ , 1.2  $\mu\text{m}$ , 2.4  $\mu\text{m}$ , 5  $\mu\text{m}$ , 7  $\mu\text{m}$ , 10  $\mu\text{m}$
- Tapered pore structure provides high flow rates & high dirt holding capacity
- Wide chemical & solvent compatibility

### Typical Applications

- Prefiltration and clarification of solvents, acids, bases, aqueous solutions (when pre-wetted with low surface tension liquids), gases or air

## Specifications

Membrane Media	Pore Size	Typical Flow Rates - Water (ml/min·cm <sup>2</sup> ·bar)	Minimum Bubble Point - Water psi (bar)	Typical Flow Rates - IPA (ml/min·cm <sup>2</sup> ·bar)	Min. Bubble Point - IPA (60/40 IPA/H <sub>2</sub> O) psi (bar)
<b>SteriLUX<sup>®</sup></b> hydrophilic PVDF membrane					
	0.1 µm	5	70 (4,8)	-	-
	0.2 µm	12	50 (3,4)	-	-
	0.4 µm	38	28 (1,9)	-	-
	0.6 µm	85	14 (1,0)	-	-
<b>STyLUX<sup>®</sup></b> hydrophilic PES membrane					
	0.04 µm	8	115 (7,9)	-	-
	0.1 µm	20	80 (5,5)	-	-
	0.2 µm	40	44 (3,0)	-	-
	0.4 µm	60	32 (2,2)	-	-
	0.6 µm	120	18 (1,2)	-	-
<b>EverLUX<sup>®</sup></b> hydrophilic PES membrane					
	0.2 µm	-	62 (4,3)	-	-
	0.4 µm	-	40 (2,8)	-	-
	0.6 µm	-	22 (1,5)	-	-
<b>Steridyne<sup>®</sup></b> hydrophobic PVDF membrane					
	0.2 µm	-	-	-	18 (1,2)
<b>Ultradyne<sup>®</sup></b> hydrophobic PTFE membrane					
	0.1 µm	-	-	5	20 (1,4)
	0.2 µm (TA-Grade)**	-	-	8	16 (1,1)
	0.2 µm	-	-	10	14 (1,0)
	0.4 µm	-	-	20	7 (0,5)
	1.0 µm	-	-	-	-
<b>Chemdyne<sup>®</sup></b> hydrophobic polypropylene membrane					
	0.1 µm	-	-	3	24 (1,7)
	0.2 µm	-	-	9	10 (0,7)

## Ordering Information

Media Grade	Pore Size (µm)	Diameter - Quantity
<i>VMH</i>	<i>0.1</i>	<i>047-00</i>
<b>VMH</b> = SteriLUX <sup>®</sup> PVDF	<b>0.1, 0.2, 0.4, 0.6</b>	<b>013-00</b> = 13 mm, 100/pk
<b>SM</b> = STyLUX <sup>®</sup> PES	<b>0.04, 0.1, 0.2, 0.4, 0.6</b>	<b>025-00</b> = 25 mm, 100/pk
<b>SMH</b> = EverLUX <sup>™</sup> PES	<b>0.2, 0.4, 0.6</b>	<b>047-00</b> = 47 mm, 100/pk
<b>VMV</b> = Steridyne <sup>®</sup> PVDF	<b>0.2</b>	<b>090-25</b> = 90 mm, 25/pk
<b>TM</b> = Ultradyne <sup>®</sup> PTFE	<b>0.1, 0.2, 0.4, 1.0</b>	<b>M93-25</b> = 93 mm, 25/pk
<b>TA</b> = Ultradyne <sup>®</sup> PTFE**	<b>0.2</b>	<b>142-25</b> = 142 mm, 25/pk
<b>PM</b> = Chemdyne <sup>®</sup> polypropylene	<b>0.1, 0.2</b>	<b>293-25*</b> = 293 mm, 25/pk
<b>RF</b> = Protec <sup>®</sup> (single layer)	<b>0.5</b>	
<b>MF</b> = ALpHA <sup>®</sup> polypropylene	<b>0.6, 0.8, 1.2, 2.4, 5, 7, 10</b>	

\* Consult Meissner for availability of 293 mm EverLUX<sup>™</sup>, Ultradyne<sup>®</sup> and Chemdyne<sup>®</sup> disc filters.

\*\* TA-Grade is a sterilizing grade filter per ASTM F838 liquid bacterial challenge.

All Meissner disc filters are autoclavable at 121 °C for 60 minutes. Disc filters are provided non-sterile.



4181 Calle Tesoro • Camarillo, CA 93012  
 (800) 391-9458 • Fax (805) 388-5948  
 International: +1-805-388-9911  
 www.meissner.com